

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/090228 A1

(51) International Patent Classification⁷: D21H 21/28, (74) Common Representative: CIBA SPECIALTY CHEMICALS HOLDING INC.; Patent Department, Klybeckstrasse 141, CH-4057 Basel (CH).

(21) International Application Number:

PCT/EP2004/050443

(22) International Filing Date: 5 April 2004 (05.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0308487.8 14 April 2003 (14.04.2003) GB

(71) Applicant (for all designated States except US): CIBA SPECIALTY CHEMICALS HOLDING INC. [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DAVENPORT, Ray [US/US]; 8 Foxglove Lane, Greensboro, NC 27455 (US). HUNGER, Charles [CH/CH]; Fuchsmattstrasse 34, CH-4107 Ettingen (CH). KNOWLES, Ian William [GB/GB]; 267 Broadstone Road, Heaton Chapel, Stockport Cheshire SK4 5HH (GB). LLOYD, Terry [US/US]; 3801 Crosstimbers Drive, Greensboro, NC 27410 (US). MCLOW, Barry [GB/GB]; 3 Buxton Lane, Droylsden, Manchester Greater Manchester M43 6HL (GB). SCHNEIDER, Heinz [CH/GB]; 2 Kestrel Close, Congleton Cheshire CW12 3FA (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PAPER COATING COMPOSITIONS

(57) Abstract: The invention relates to a composition for controlling the bleed fastness of organic colouring pigments in paper coatings comprising a) 1 to 30% by weight, based on the total weight of the composition, of an organic colouring pigment, b) 1 to 20% by weight, based on the total weight of the composition, of one or more binders, c) 0 to 20% by weight, based on the total weight of the composition, of starch, d) 0 to 10% by weight, based on the total weight of the composition, of an anionic direct dye, e) 0 to 10% by weight, based on the total weight of the composition one or more auxiliaries and f) water to 100%, a method of application and use of the composition